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ATTORNEY DOCKET NO. CONFIRMATION NO. FILING DATE FIRST NAMED INVENTOR APPLICATION NO. 2485 30816-0041 Brian S. Vandrak 10/605,486 10/02/2003 **EXAMINER** 08/17/2004 7590 24115 BUCKINGHAM, DOOLITTLE & BURROUGHS, LLP WILSON, GREGORY A 50 S. MAIN STREET ART UNIT PAPER NUMBER AKRON, OH 44308 3749

DATE MAILED: 08/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Summary	10/605,486	VANDRAK ET AL.	
	Examiner	Art Unit	V
	Gregory A. Wilson	3749	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with	h the correspondence add	dress
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply within the statutory minimum of thirty will apply and will expire SIX (6) MONT as cause the application to become ABA	oly be timely filed (30) days will be considered timely HS from the mailing date of this co NDONED (35 U.S.C. § 133).	r. mmunication.
Status			
1) Responsive to communication(s) filed on 02 C	October 2003.		
2a)☐ This action is FINAL . 2b)☒ This	s action is non-final.		
3) Since this application is in condition for allowated closed in accordance with the practice under the second condition for allowated conditions are second conditions.			merits is
Disposition of Claims	·		
4) Claim(s) 1-146 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) 131-146 is/are allowed. 6) Claim(s) See Continuation Sheet is/are rejected 7) Claim(s) 13-16,19-23,26,35-37,42-46,49,57,648 Claim(s) are subject to restriction and/or	wn from consideration. ed. 4-67,70-74,77,83-94,96-102	2 <u>,112-122 and 125</u> is/are	objected to.
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on <u>02 October 2003</u> is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	e: a) accepted or b) ob drawing(s) be held in abeyand tion is required if the drawing(s	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CF	FR 1.121(d).
Priority under 35 U.S.C. § 119	·		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Aportity documents have been received in the contract of the c	plication No received in this National	Stage
Attachment(s)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s)	immary (PTO-413) /Mail Date ormal Patent Application (PTC)-152)

Continuation of Disposition of Claims: Claims rejected are 1-12,17,18,24,25,27-34,38-41,47,48,50-56,58-63,68,69,75,76,78-82,95,103-111,123,124 and 126-130.

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DETAILED ACTION

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "14" has been used to designate both side face and back panel. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-12, 17, 18, 24, 25, 27-34, 38-41, 47, 48, 50-56, 58-63, 68, 69, 75, 76, 78-82, 95, 103-111, 123, 124, and 126-130 rejected under 35 U.S.C. 103(a) as being

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unpatentable over Cherryholmes (4,782,814) in view of Japan reference (JP354116747A). Cherryholmes discloses a portable infrared heater (20) and includes a housing (21, 27, 66, 67) having a handle (28) for transporting the heater and legs (26) to elevate the housing, an air inlet (36), a burner assembly (23) mounted in the housing including a gas fuel valve (regulator 29) adapted to communicate with a fuel source (propane tank 24) which in enclosed in the housing and the air inlet and capable of regulating the pressure of the fuel, a radiant surface (22) having a rear face and communicates with a venturi (25) where the air/fuel is inherently mixed, an orifice (31) being located to direct fuel to the venturi, alternatively, Figure 3 shows the radiant surface recessed in the housing and disposed at an angle. Cherryholmes furthermore discloses an igniter (ie: piezo) secured to the housing (SEE column 3, lines 13-15), an access means to the fuel source by way of lid/door (unnumbered) which handle (28) is attached. Cherryholmes does not particularly disclose an oxygen depletion monitoring means associated with the burner assembly. (JP354116747A) teaches an oxygen depletion monitoring device which detects when oxygen is deficient and drops the output through a thermocouple which closes the valve to the burner shutting off the burner. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains to have modified the portable infrared heater of Cherryholmes to include the safety feature as taught by (JP354116747A) for the purpose of disabling the portable heater when oxygen levels begin to drop and carbon monoxide levels begin to rise. In reference to claims 10, 12, 27-31, 50-54, 63, 78-82, 111, and 126-130, Cherryholmes in view of Japan reference

(JP354116747A) does not particularly disclose the size variations and positions of the fuel tank. It would have been an obvious matter of design choice to have modified Cherryholmes in view of (JP354116747A) to be sized to include multiple propane tanks attached at various locations since such a modification would have involved a mere change in size and mounting locations which is generally recognized as being within the level or ordinary skill in the art. In reference to claims 4-6 & 106-108, Cherryholmes in view of (JP354116747A) does not particularly disclose a recess for hanging up the heater. It would have been an obvious matter of design choice to modify the teachings (substitute) of Cherryholmes in view of (JP354116747A) to provide an opening for hanging up the heater, since the applicant has not disclosed that having a key-shaped opening solves any stated problem in a new or unexpected way or is for any particular purpose which is unobvious to one of ordinary skill. It appears that the claimed feature does not distinguish the invention over similar features in the prior art since, the infrared heater of Cherryholmes in view of (JP354116747A) will perform the invention as claimed by the applicant with any means of mounting to a wall and alternatively using the handle as a hanging means.

Allowable Subject Matter

Claims 131-146 are allowed.

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Claims 13-16, 19-23, 26, 35-37, 42-46, 49, 57, 64-67, 70-74, 77, 83-94, 96-102, 112-122, and 125 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory A. Wilson whose telephone number is (703) 308-1239. The examiner can normally be reached on 7 am - 4:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ira Lazarus can be reached on (703)308-1935. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

GREGORY WILSON
PRIMARY EXAMINER
THEORY A. Sulan

Gaw August 16, 2004